

## PATENT ABSTRACTS OF JAPAN

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## (54) COLOR FILTER FOR DISPLAY

## (57)Abstract:

PURPOSE: To obtain the color filter for display which decreases the light transmittance and light reflection in inter-picture element parts without degrading brightness and color purity.

CONSTITUTION: The main parts of the color filter are constituted of a glass substrate 1, light scattering parts 2 formed by a surface roughening treatment in the inter-picture element parts of the glass substrate 1, metallic light shielding layers 3 formed on the light scattering parts 2, transparent colored layers 4R, 4G, 4B provided in the picture element parts of the glass substrate 1 and transparent electrodes 6 laminated via a smoothing layer 5. The light transmitted through the inter-picture element parts is shielded by the metallic light shielding layers 2 and the light which enters from the glass substrate 1 side and is reflected by the metallic light shielding layers 3 is scattered by the light scattering part 2 and, therefore, the intensity of the reflected light is lowered. The light scattering parts 2 are not formed in the picture element parts of the glass substrate 1, the degradation in the transmittance of the picture element parts and the degradation in the color purity arising from the development defect of the transparent colored layers 4R, 4G, 4B are prevented.



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